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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/618,645	07/18/2000	Grant R. Griffin	462-99-004	1830
128	7590	08/02/2005	EXAMINER	
HONEYWELL INTERNATIONAL INC. 101 COLUMBIA ROAD P O BOX 2245 MORRISTOWN, NJ 07962-2245			CHANG, EDITH M	
			ART UNIT	PAPER NUMBER
			2637	

DATE MAILED: 08/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/618,645	Applicant(s) GRIFFIN, GRANT R.	
	Examiner Edith M. Chang	Art Unit 2637	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-44 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 1-44 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 July 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 12-16, filed on July 11, 2005, with respect to claims 1, 2, 10, 15, 16, 24, 29, 31 and 41-43 have been fully considered and are persuasive. The rejection of claims 1-10, 14-14, 28-38 and 40-44 has been withdrawn.

Claim Objections

2. Claims 1-44 are objected to because of the following informalities:

Claims 1-14, line 1: "A demodulator for" should be "A system for",

Claim 1, lines 5-6: "a correlation value" should be "correlation values"; line 15: "signal" should be "signal outputted from the implementing device".

Claim 11, line 4: "adder/summer" should be "adder or summer".

Claim 13, line 3: "delay of 0 samples" should be "delay of 0 sample".

Claim 15, line 13: "the received digital data signal" should be "the implemented received digital data signal".

Claim 20 & Claim 21, line 2: "step determines" should be "step further determines".

Claim 31, line 12: "a fractional" should be "the fractional"; line 14: "the digital data signal" should be "the implemented received digital data signal".

Claim 32 & Claim 33, line 3: "a fractional" should be "the fractional".

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Claim 40 should be cancelled, since the limitation is redundant with the claim 31, and does not further limited the subject matter claimed in the claim 31. The claim 31 lines 1-2 recite the "computer executable code stored in a computer readable medium".

Claim 41, line 9: "the fractional" should be "the amount of fractional"; line 10: the digital data signal" should be "the implemented received digital data signal".

Claim 42, line 11: "the fractional" should be "the amount of a fractional"; line 12: "the digital data signal" should be "the digital data signal outputted from the implementing means".

Claim 43 & Claim 44, line 2: "the reference" should be "the predetermined reference".

Claims 16-19, 22-30, 34-35 and 38-39 are directly or indirectly dependent on the objected claims 15 and 31.

Appropriate correction is required.

Allowable Subject Matter

3. Claims 1-44 would be allowable if rewritten to overcome the objection(s) set forth in this Office action.

4. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach or suggest, alone or in a combination, among other things, at least a demodulator for demodulating digital data and its method as a whole, the combination of elements and features, which includes the a correlator for

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correlating the digital data with a predefined reference training sequence; a verification unit to select correlation values above a threshold value; a determining device to determine an amount of a fractional sample delay to be added to a demodulator's symbol sampling timing would improve synchronization timing or based on the selected correlation values; implementing device to implement the amount of a fractional sample delay; and demodulating device for demodulating the digital data signal outputted from the implementing device.

Conclusion

5. This application is in condition for allowance except for the following formal matters:

See the claim objection paragraph.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

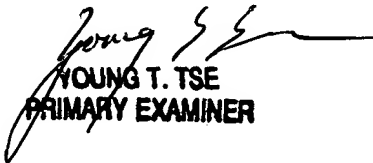
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edith M. Chang whose telephone number is 571-272-3041. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay K. Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edith Chang
July 26, 2005


YOUNG T. TSE
PRIMARY EXAMINER